



- GENERAL NOTES:**
- SHOP AREA 110, EG LAB 112, AND TOILET 108 SHALL BE CLASSIFIED AS A CLASS 1, DIV. 1 HAZARDOUS AREA IN ANY PITS OR DEPRESSIONS EXTENDING BELOW FINISHED FLOOR, AND AS CLASS 1, DIV. 2 FROM FINISHED FLOOR TO 18" AFF. ALL COMPONENTS SHALL MEET THE APPROPRIATE NEC REQUIREMENTS.
 - ALL CONDUITS IN SHOP AREA 110 AND EG LAB 112 SHALL BE RGSC WITH THREADED FITTINGS.
 - PROVIDE DEDICATED NEUTRALS FOR EACH CIRCUIT, UNO.
 - HOMERUN CIRCUITS AS SHOWN. DO NOT COMBINE HOMERUNS.
 - 120V CIRCUITS LONGER THAN 90' SHALL BE #10 AWG.
 - CONTRACTOR SHALL ENSURE THAT ALL CODE REQUIRED WORKING SPACE CLEARANCES ARE MAINTAINED.
 - ALL CONDUITS SHALL BE ROUTED OVERHEAD, UNO.
 - NO CONDUIT SHALL BE ROUTED IN OR BELOW SLAB, UNLESS SPECIFICALLY NOTED OTHERWISE.

- PARTIAL POWER LEGEND:**
- (2) SIMPLEX L5-20R RECEPTACLES MOUNTED FACE DOWN IN CEILING TILE FOR 120V. RE: DETAIL "A" THIS SHEET.
 - (2) SIMPLEX L6-30R RECEPTACLES MOUNTED FACE DOWN IN CEILING TILE FOR 208V. RE: DETAIL "A" THIS SHEET.
 - (2) SIMPLEX L6-30R RECEPTACLES MOUNTED FACE DOWN IN CEILING TILE FOR 240V. RE: DETAIL "A" THIS SHEET.

- KEYED NOTES:**
- FLUSH MOUNTED JUNCTION BOX MOUNTED 48" AFF FOR GENERATOR BATTERY CHARGER. PROVIDE BLANK COVER PLATE WITH 1/2" KNOCK-OUT.
 - FLUSH MOUNTED L5-20R RECEPTACLE 48" AFF FOR 120V GENERATOR JACKET WATER HEATER POWER.
 - CORD REEL (WITH FLUORESCENT TROUBLE LIGHT WITH RECEPTACLE) MOUNTED TO STRUCTURE. REELCRAFT #L-4035-163-8. ADJUST SO FLUORESCENT HEAD DOES NOT HANG LOWER THAN 24" AFF.
 - RE: GENERAL NOTE "A" THIS SHEET.
 - SUSPEND TRANSFORMER FROM STRUCTURE. RE: DETAIL B/E-503. IN ROOM 110 ALIGN TRANSFORMER WITH CEILING GRID TILE SO TRANSFORMER IS ACCESSIBLE THROUGH OPENING IN CEILING GRID.
 - (12) DISCONNECTS, FOR ATS NORMAL POWER CORD REELS AT EACH GENERATOR POSITION. RE: DETAIL C/E-503.
 - FLUSH MOUNTED NEMA L6-20R RECEPTACLE MOUNTED +48" AFF FOR 240V GENERATOR BATTERY CHARGER.
 - RECEPTACLE MOUNTED TO STRUCTURE FOR CORD REEL.
 - (2) 30"X30"X10"D NEMA 1 ENCLOSURES WITH SCREW COVERS MOUNTED BACK TO BACK TO STRUCTURE WITH COVERS FACING NORTH AND SOUTH. BOTTOM OF BOX SHALL BE 16'-0" AFF. COORDINATE EXACT MOUNTING WITH USING AGENCY. INSTALL INSULATED POWER DISTRIBUTION BLOCKS FOR CONNECTION OF OWNER'S CABLES.
 - ROUTE CONDUIT OVERHEAD. RE: "ONE-LINE DIAGRAM - 480V," A/E-102 FOR CONDUIT AND WIRE SIZES.
 - ROUTE CONDUIT OVERHEAD. RE: "ONE-LINE DIAGRAM - 208V," A/E-103 FOR CONDUIT AND WIRE SIZES.
 - CORD REEL FOR 240/120V, 1ø, 3W POWER SOURCE TO ATS NORMAL POWER CIRCUIT. REELCRAFT #SP1011050-A2. HARD WIRE POWER FEED INTO CORD REEL. PROVIDE 14 AWG 4 CONDUCTOR TYPE "SOOW" CABLE WITH SINGLE GANG BOX WITH ROUNDED CORNERS AND KNOCK OUTS IN SIDE AND BACK OF BOX ON END OF CORD WITH MESH-GRIP STRAIN RELIEF CORD CONNECTOR. PROVIDE SUFFICIENT CORD SO THAT BOX WILL HANG 24" AFF. PROVIDE BLANK COVER FOR BOX. MOUNT BOX TO STRUCTURE. COORDINATE EXACT LOCATION WITH USER.
 - CORD REEL FOR 208Y/120V, 3ø, 4W POWER SOURCE TO ATS NORMAL POWER CIRCUIT. REELCRAFT #SP1011050-A2. HARD WIRE POWER FEED INTO CORD REEL. PROVIDE 14 AWG 5 CONDUCTOR TYPE "SOOW" CABLE WITH SINGLE GANG BOX WITH ROUNDED CORNERS AND KNOCK OUTS IN SIDE AND BACK OF BOX ON END OF CORD WITH MESH-GRIP STRAIN RELIEF CORD CONNECTOR. PROVIDE SUFFICIENT CORD SO THAT BOX WILL HANG 24" AFF. PROVIDE BLANK COVER FOR BOX. MOUNT BOX TO STRUCTURE. COORDINATE EXACT LOCATION WITH USER.
 - CORD REEL FOR 480Y/277V, 3ø, 4W POWER SOURCE TO ATS NORMAL POWER CIRCUIT. REELCRAFT #SP1011050-A2. HARD WIRE POWER FEED INTO CORD REEL. PROVIDE 14 AWG 5 CONDUCTOR TYPE "SOOW" CABLE WITH SINGLE GANG BOX WITH ROUNDED CORNERS AND KNOCK OUTS IN SIDE AND BACK OF BOX ON END OF CORD WITH MESH-GRIP STRAIN RELIEF CORD CONNECTOR. PROVIDE SUFFICIENT CORD SO THAT BOX WILL HANG 24" AFF. PROVIDE BLANK COVER FOR BOX. MOUNT BOX TO STRUCTURE. COORDINATE EXACT LOCATION WITH USER.
 - IN THIS AREA ROUTE CONDUITS OVERHEAD TO PANELS "1N2E" AND "1N3B."
 - DUPLEX RECEPTACLE FOR DAY TANK.
 - (2) 2" CONDUITS WITH PULL STRING.
 - (2) 4" CONDUITS WITH PULL STRING.
 - RE: ATTACHED FAA DRAWING LID-D-FCLTY-C001 FOR EXACT STUB UP LOCATION.
 - PROVIDE GROMMET THROUGH CEILING TILE FOR CORD. ALIGN CORD REEL SO CORD IS IN APPROXIMATE CENTER OF CEILING TILE.
 - (2) 1" CONDUITS WITH PULL STRING AND (1) 1 1/2" CONDUIT WITH PULL STRING. RE: "GROUNDING PLAN," 1/E-301 FOR GROUNDING CONDUIT STUB UP IN SAME LOCATION.
 - ROUTE THROUGH APPROPRIATE DISCONNECT SWITCH ON WEST WALL. RE: KEYED NOTE 6 AND DETAIL C/E-503.
 - PROVIDE UNISTRUT BRACING AS REQUIRED TO MOUNT BYPASS PANELS IF NECESSARY. IF PANELS ARE DESIGNED FOR FLOOR MOUNTING, SECURE USING (4) 1/2" X 3" L WEDGE ANCHORS.
 - COORDINATE EXACT STUB UP LOCATIONS WITH OWNER. RE "CONDUIT STUB UP DETAIL," E/E-503.
 - PROVIDE 2-POLE FUSED DISCONNECT. COORDINATE EXACT LOCATION WITH OWNER. RE: ATTACHED FAA DRAWING LOC-D-FAC-E001 FOR ROUTING CONDUIT INTO BUILDING.
 - COORDINATE EXACT LOCATION WITH OWNER.
 - CORD REEL (WITH FLUORESCENT TROUBLE LIGHT WITH RECEPTACLE) MOUNTED TO STRUCTURE. REELCRAFT #L-4035-163-8.
 - PROVIDE CONCRETE SLAB FOR FUEL CELL ACCORDING TO MANUFACTURER'S STANDARDS.
 - ROUTE CONDUIT OVERHEAD TO UPS UNITS AND BYPASS PANELS IN THIS ROOM. RE: "ONE-LINE DIAGRAM - 480V," A/E-102 AND "ONE-LINE DIAGRAM - 208V," A/E-103 FOR CONDUIT AND WIRE SIZES.

REES ASSOCIATES INC
ARCHITECTURE PLANNING INTERIORS
REES PLAZA AT EAST WHARF
9211 LAKE HEFNER PARKWAY, SUITE 300
OKLAHOMA CITY, OKLAHOMA 73120
P: 405.942.7337 F: 405.948.1261

Mechanical Engineer
050 Engineering Company
228 Robert S. Kerr Ave, Suite 515
Oklahoma City, OK 73102
P: 405.236.2030 F: 405.239.6101

Electrical Engineer
Horne Associates Engineers, Inc.
1306 Commerce Drive
Norman, OK 73071
P: 405.801.2528 F: 405.801.2529

Civil Engineer
MacArthur Associated Consultants
3033 NW 63rd St., Ste. 250E
Oklahoma City, OK 73116
P: 405.848.2471 F: 405.848.2474

Structural Engineer
Zahl-Ford, Inc.
8411 S. Walker
Oklahoma City, OK 73139
P: 405.634.3393 F: 405.634.6414

		100% SUBMITTAL			
REV	DATE	DESCRIPTION		CHECK	APP'D
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION MIKE MONRONEY AERONAUTICAL CENTER - OKLAHOMA CITY, OKLAHOMA					
PSL - POWER SERVICES LABORATORY					
ENLARGED POWER PLANS					
Construction Work Request No: 09-018745					
PREPARED BY Rees Associates			APPROVED BY Jon Berkman		
DESIGNED JGH	ISSUED BY OFFICE OF FACILITY MANAGEMENT	DATE May 26, 2011	E-302		
DRAWN BLP	AMF-400	DRAWING NO. 08-008257	16 of 31		
WORK ORDER NO. 09-018745					

PROFESSIONAL ENGINEER
JULIAN DUANE
HORNOR
17193
05-26-11
OKLAHOMA

H-AE Horner Associates Engineers, Inc.
1306 Commerce Dr, Norman, OK 73071
Certificate of Registration No. 013528, Expires 4/30/2011
info@haeinc.com Ph: (405) 801-2528 Fax: (405) 801-2529

COPYRIGHT © 2011 HORNOR ASSOCIATES ENGINEERS, INC. ALL RIGHTS RESERVED